



1. Subject name	Construction of logistics machinery				
2. Subject name in Hungarian	Logisztikai gépek tervezése				
3. Code	BMEKOALM324	4. Evaluation type	exam grade	5. Credits	3
6. Weekly contact hours	2 (9) Lecture	1 (5) Practice	0 (0) Lab		
7. Curriculum	Logistics Engineering MSc (L)	8. Role	Specialization (sp) at Logistics Engineering MSc (L)		
9. Working hours for fulfilling the requirements of the subject					90
Contact hours	42	Preparation for seminars	8	Homework	9
Reading written materials	10	Midterm preparation	6	Exam preparation	15
10. Department	Department of Material Handling and Logistics Systems				
11. Responsible lecturer	Dr. Bohács Gábor				
12. Lecturers	Odonics Boglárka, Győrváry Zsolt				
13. Prerequisites					
14. Description of lectures					
Crane installation analysis. Crane automation tasks, technical system engineering issues. Forklift operation features, construction and stability issues. Work cycles of storage and retrieval machines, dimensioning questions. Overhead monorail systems operating characteristics. Constructional questions for lifting tables. Operational characteristics of roller conveyors. Conveyors drive power requirements. Operational characteristics of belt conveyor, screw conveyors, bucket elevators, swing and vibrational material handling machines.					
15. Description of practices					
During the practices examples related to the learnt machines and systems are presented and discussed.					
16. Description of laboratory practices					
17. Learning outcomes					
A. Knowledge <ul style="list-style-type: none">• Knowledge of equipment that makes up logistics systems.• Knowledge of equipment design relationships. B. Skills <ul style="list-style-type: none">• Ability to apply the above knowledge and related professional knowledge in the design of new equipment / components. C. Attitudes <ul style="list-style-type: none">• Strives to provide with the best knowledge and skills to work with the instructors. D. Autonomy and Responsibility <ul style="list-style-type: none">• In the use of the acquired knowledge the student carries out independent, responsible engineering work.					
18. Requirements, way to determine a grade (obtain a signature)					
The requirement of the signature is to fulfill the homework and one midterm test. The homework (30%), the test (20%) and the exam result (50%) are included in the final grade.					
19. Opportunity for repeat/retake and delayed completion					
The homework's final submission and the midterm test can both be resubmitted once each.					
20. Learning materials					
Students can download the subject notes in pdf format via Moodle.					
Effective date	10 October 2019	This Subject Datasheet is valid for		Inactive courses	